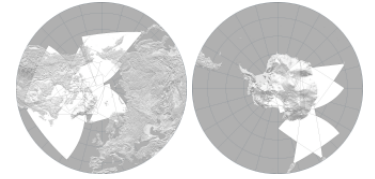# FITACF/Software Working Group Report

R.J.Barnes

# Radar Operating System
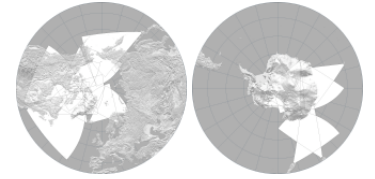
**FITACF:**

- **Agreed to "retire" the old version of FITACF**
  - **Establish a "legacy" directory for old code**

- **FITACF working group will test new algorithms**
  - **Establish a "beta" directory for new code**
    - **Changes from this meeting**
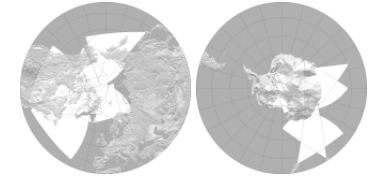    - **FITACFEX**

# Radar Operating System

**FITACF:**

- **Working group will look at differences between old and new algorithm**
  - **Kathryn will provide example data.**
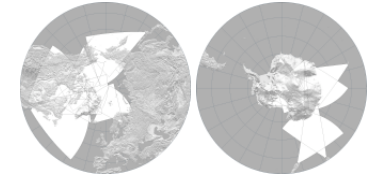
# Radar Operating System

**FITACF Working group recommends further development of techniques demonstrated at this meeting and previous meetings:**

- **Mixed scatter determination**
- **Correction for refractive index**
- **Range determination**

# Radar Operating System
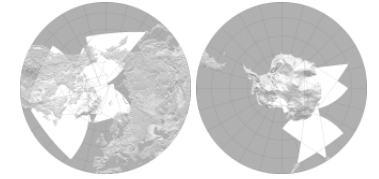
**Correction for refractive index:**

- Define a higher level data product (file) for the correction
- Do not change existing fitacf files

**Range correction**

- Further study of the correction for mid-latitude radars

# Radar Operating System

**FITACF algorithm description:**

- **Use existing SA Wiki to develop a comprehensive natural language description of the FITACF algorithm**

**Ray-Tracing:**

- **Include in the RST distribution an IDL ray-tracing package to help further development.**